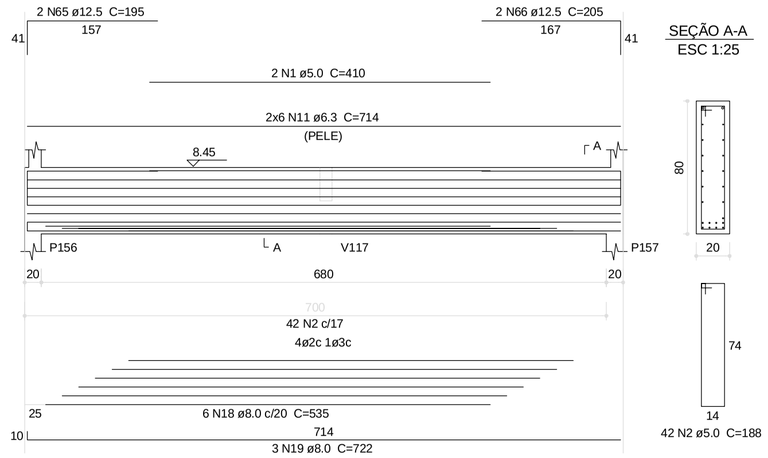
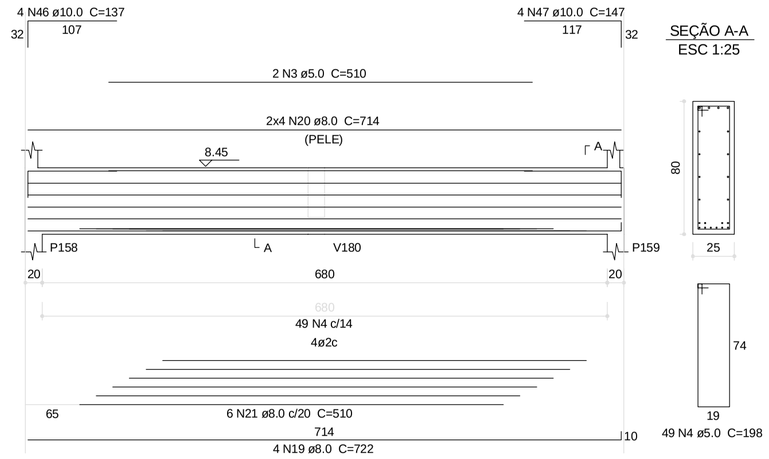
V60
1:50



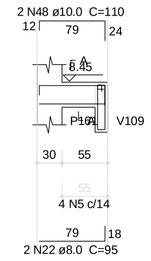
SEÇÃO A-A
ESC 1:25

V62
1:50

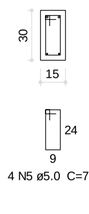


SEÇÃO A-A
ESC 1:25

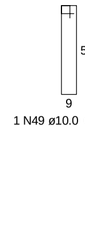
V63
1:50



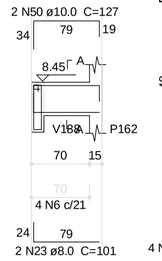
SEÇÃO A-A
ESC 1:25



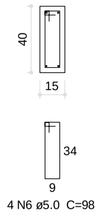
Suspensão V109
ESC 1:25



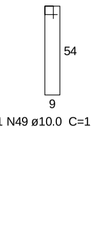
V64
1:50



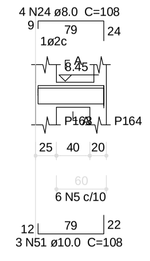
SEÇÃO A-A
ESC 1:25



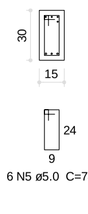
Suspensão V188
ESC 1:25



V65
1:50



SEÇÃO A-A
ESC 1:25

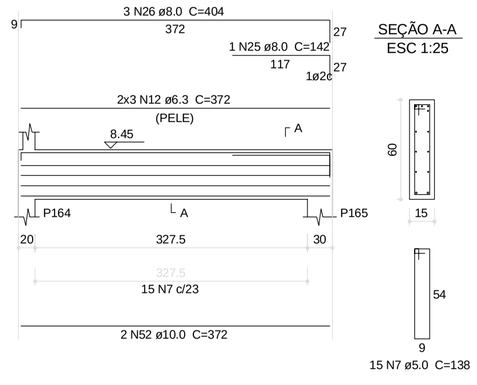


Relação do aço

V60	V62	V63
V64	V65	V66
V67	V68	V69
V70	V71	V72
V73	V74	V75
V76	V77	V78
V79	V80	V81
V82		

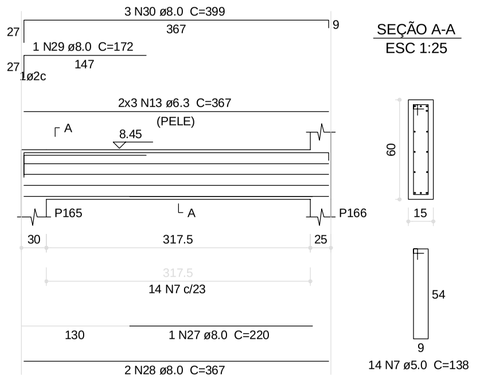
AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	2	410	820
	2	5.0	42	188	7896
	3	5.0	2	510	1020
	4	5.0	147	198	29106
	5	5.0	24	78	1872
	6	5.0	40	98	3920
	7	5.0	58	138	8004
	8	5.0	2	428	856
	9	5.0	2	473	946
	10	5.0	40	178	7120
CA50	11	6.3	12	714	8568
	12	6.3	12	372	4464
	13	6.3	12	367	4404
	14	6.3	2	110	220
	15	6.3	2	100	200
	16	6.3	8	437	3496
	17	6.3	8	602	4816
	18	8.0	6	535	3210
	19	8.0	7	722	5054
	20	8.0	16	714	11424
	21	8.0	6	510	3060
	22	8.0	6	95	570
	23	8.0	6	101	606
	24	8.0	4	108	432
	25	8.0	1	142	142
	26	8.0	6	404	2424
	27	8.0	1	220	220
	28	8.0	5	367	1835
	29	8.0	2	172	344
	30	8.0	3	399	1197
	31	8.0	4	219	876
	32	8.0	2	248	496
	33	8.0	2	107	214
	34	8.0	4	372	1488
	35	8.0	1	161	161
	36	8.0	3	413	1239
	37	8.0	8	709	5672
	38	8.0	2	79	158
	39	8.0	2	109	218
	40	8.0	2	315	630
	41	8.0	6	437	2622
	42	8.0	1	245	245
	43	8.0	1	209	209
	44	8.0	1	545	545
	45	8.0	6	602	3612
	46	10.0	4	137	548
	47	10.0	4	147	588
	48	10.0	4	110	440
	49	10.0	6	139	834
	50	10.0	2	127	254
	51	10.0	3	108	324
	52	10.0	2	372	744
	53	10.0	2	266	532
	54	10.0	1	155	155
	55	10.0	3	195	585
	56	10.0	4	172	688
	57	10.0	3	120	360
	58	10.0	3	111	333
	59	10.0	3	413	1239
	60	10.0	5	719	3595
	61	10.0	4	142	568
	62	10.0	4	175	700
	63	10.0	2	132	264
	64	10.0	3	101	303
	65	12.5	2	195	390
	66	12.5	2	205	410
	67	12.5	2	428	856
	68	12.5	3	726	2178
	69	12.5	2	149	298
	70	16.0	2	114	228

V66
1:50



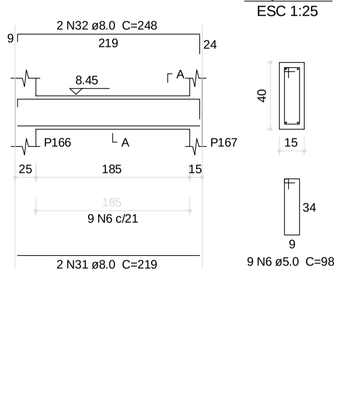
SEÇÃO A-A
ESC 1:25

V67
1:50



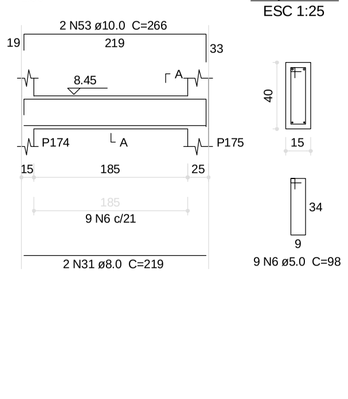
SEÇÃO A-A
ESC 1:25

V68
1:50



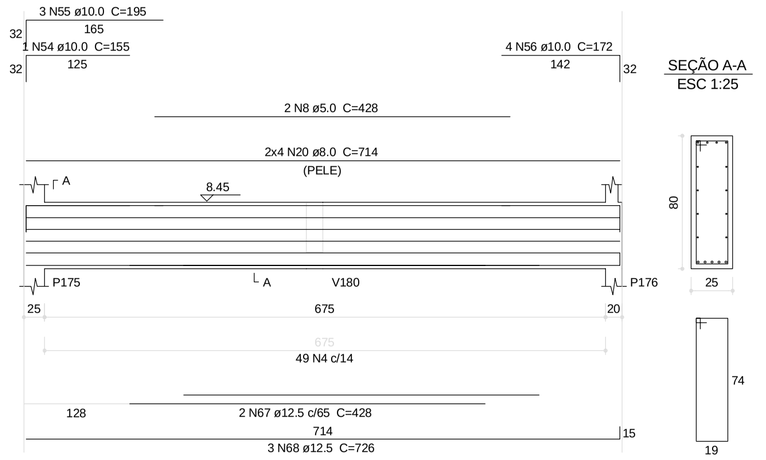
SEÇÃO A-A
ESC 1:25

V69
1:50



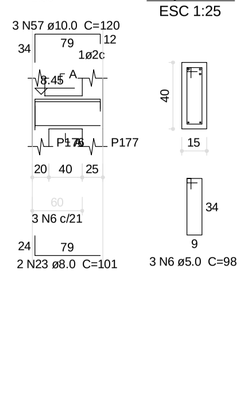
SEÇÃO A-A
ESC 1:25

V70
1:50



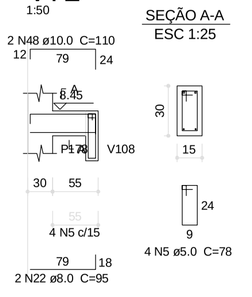
SEÇÃO A-A
ESC 1:25

V71
1:50



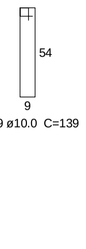
SEÇÃO A-A
ESC 1:25

V72
1:50

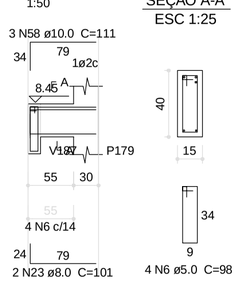


SEÇÃO A-A
ESC 1:25

Suspensão V108
ESC 1:25

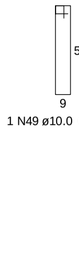


V73
1:50

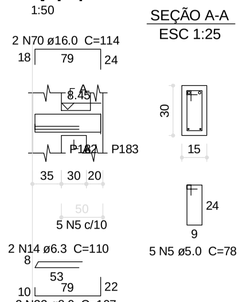


SEÇÃO A-A
ESC 1:25

Suspensão V187
ESC 1:25

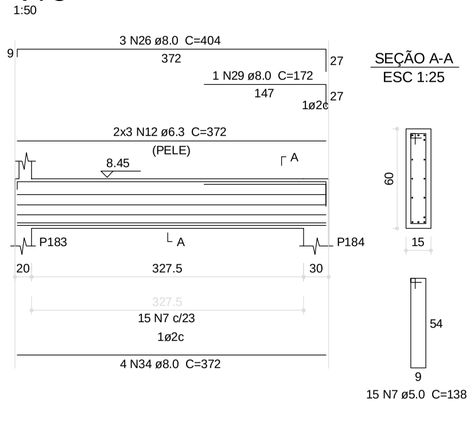


V74
1:50



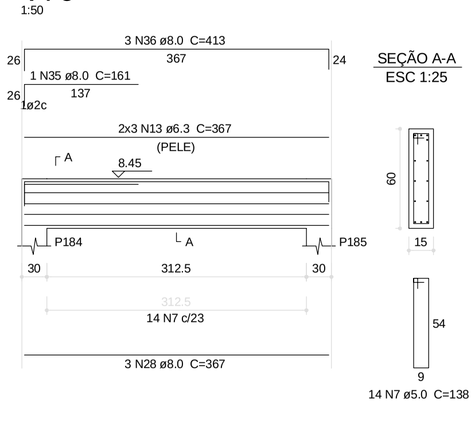
SEÇÃO A-A
ESC 1:25

V75
1:50



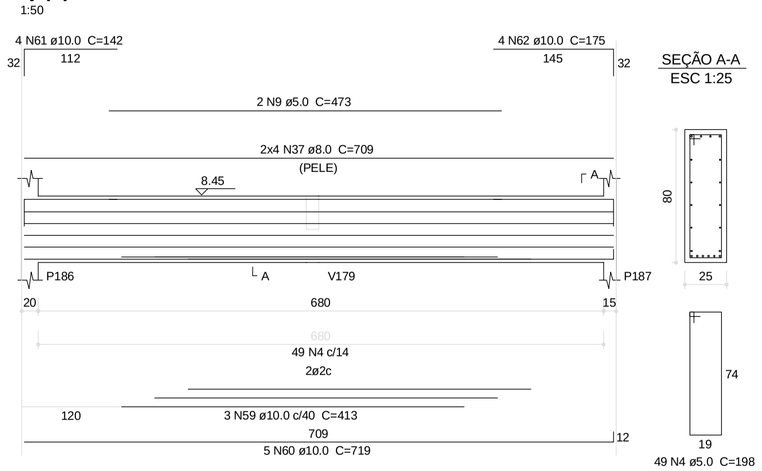
SEÇÃO A-A
ESC 1:25

V76
1:50



SEÇÃO A-A
ESC 1:25

V77
1:50



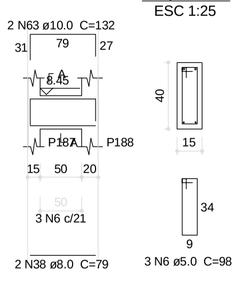
SEÇÃO A-A
ESC 1:25

Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	261.7	70.4
	8.0	489.1	212.3
	10.0	130.6	88.5
	12.5	41.4	43.8
	16.0	2.3	4
CA60	5.0	615.6	104.4
PESO TOTAL			
CA50	419		
CA60	104.4		

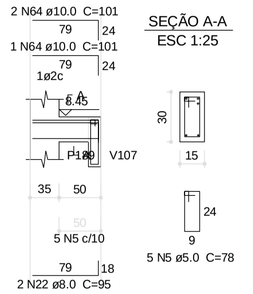
Vol. de concreto total (C-30) = 8.79 m³
Área de forma total = 102.95 m²

V78
1:50



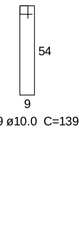
SEÇÃO A-A
ESC 1:25

V79
1:50

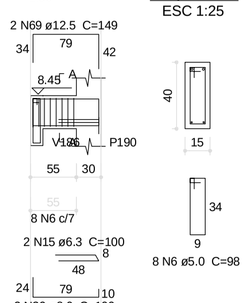


SEÇÃO A-A
ESC 1:25

Suspensão V107
ESC 1:25

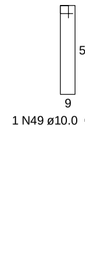


V80
1:50

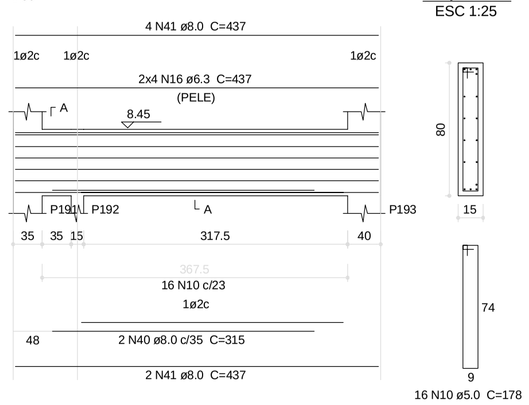


SEÇÃO A-A
ESC 1:25

Suspensão V186
ESC 1:25

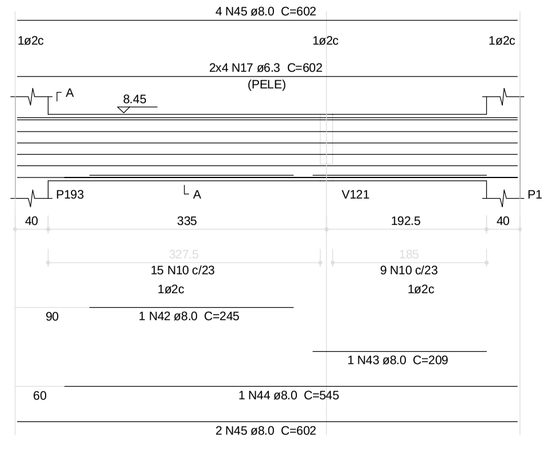


V81
1:50

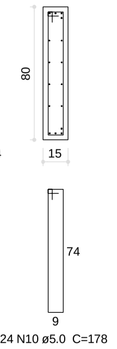


SEÇÃO A-A
ESC 1:25

V82
1:50



SEÇÃO A-A
ESC 1:25



Nº:	DATA	RESPONSÁVEL	DESCRIÇÃO DA REVISÃO:

FASE: PROJETO ESTRUTURAL

OBSERVAÇÕES: CONFERIR MEDIDAS NA OBRA

NUGEO - NÚCLEO DE GEOCIÊNCIAS
CAMPUS DIAMANTINA
RODOVIA MG 367, KM 583, Nº 5000 - ALTO DA JACUBA - DIAMANTINA/MG
PROPRIETÁRIO: UNIVERSIDADE FEDERAL DOS VALES DO JEQUITINHONHA E MUCURI — CNPJ 16.888.315/0001-57

TÍTULO: DETALHAMENTO DAS VIGAS DO 1º PAVIMENTO- 3/10
LEGENDAS

AUTOR PROJETO ESTRUTURAL / RT:
MACEDO SIQUEIRA PROJETOS & ENGENHARIA LTDA-ME
CNPJ: 09.566.686/0001-57
RT: ENG. CIVIL ANTÔNIO AUGUSTO DE MACEDO – CREA: 81.746/DMG
RUA MARGARIDA CORTONA Nº799, CANAAN, SETE LAGOAS/MG
FONES: (31) 3771-0554 / 9997-3184
A.MACEDO Projetos e Engenharia
www.amacedoengenharia.com.br
Fones: (31) 3771-0554 / 9997-3184

DETALHAMENTO:

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